

भारत का राजपत्र  
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नई दिल्ली, शनिवार, मई 16, 1992 (वैसाख 26, 1914)

No. 20]

NEW DELHI, SATURDAY, MAY 16, 1992 (VAISAKHA 26, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के स्पष्ट में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2  
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 16th May 1992

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

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Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

1-67 GI/92

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees* :—The fees may either be paid in cash or may be sent by Money Order or Postal Order payable to the Controller at the appropriate Offices or by bank draft or *cheque*, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 16 मई 1992

पेटेंट कार्यालय के कार्यालयों के तरे एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, विल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रावेशिक क्षेत्राधिकार जोन के आधार पर निम्न स्पष्ट में वर्णित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी इस्टेट,  
तीसरा तल, लोअर पश्चेत (पश्चिम),  
बम्बई-400013।

ग्रजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दम्न तथा  
शिवाय एवं दादरा और नगर हृष्टेशी।

तार पता—“पेटेंटिफिस”

पेटेंट कार्यालय शास्त्र,  
एकल सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
ग्ररवाली मार्ग, कर्नल बाग,  
गड्डी दिल्ली-110005।

हरिगाणा, हिमाचल प्रदेश, अमृत तथा कर्मीर,  
पंजाब, गोजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं मध्य शासित क्षेत्र चंडीगढ़ तथा विल्ली।

तार पता—“पेटेंटिफिक”

पेटेंट कार्यालय शास्त्र,  
61, वालाजाह रोड,  
मद्रास-600002।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं मध्य शासित क्षेत्र पाण्डिचेरी, वक्षद्वीप  
मिनिकाय तथा अमिनिदिवि द्वीप

तार पता—“पेटेंटोफिस”—

पेटेंट कार्यालय (प्रधान कार्यालय)  
निजाम पैलेग, दिवतीय बहुतलीय कार्यालय,  
भवन, 5, 6 तथा 7वा तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020।

भारत का अब शंड क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या सी नकद की ज्ञाएँ अथवा उपर्युक्त कार्यालय में नियंत्रित को भुत्तान योग्य भुत्तादेश अथवा डाक आदेश या जहां उपर्युक्त कार्यालय अवस्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक व्वारा को जा सकती है।

#### CORRIGENDA

In the Gazette of India, Part III, Section 2, dated 14th May, 1983, page 324, column 2 under heading Registration of Designs read the address;

(a) Lohar Galli, Nanded 431604, Maharashtra for Registered Design No. 152589 in class 4 just after Manohar Industries, a partnership firm.

(b) C/19, Industrial Area, Amausi, Lucknow-226009 for Registered Design No. 152925 in class 4 just after Indian Chemical Industries, an Indian sole Proprietary concern.

(c) Dated 21st May, 1983, Page 335, Column 2 under heading Registration of Designs read the address Gal Shahid, Pakhta Bagh, Moradabad, Uttar Pradesh, India for Design No. 152785 in class 1 just after Abdul Wajid & Company, an Indian Partnership firm.

In the Gazette of India, Part-III, Section-2, dated 9th May, 1992 under the heading “PATENT SEALED” read ‘Patent Sealed on 10th April, 1992 instead of 10th March, 1992.

#### GOVERNMENT OF INDIA

#### THE PATENT OFFICE

Calcutta, the 16th May 1992

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 7th April, 1992

234 Cal/92 Mr. Ranjit Singh Bhamra, Horizontal in injection double acting machine for ball point refill production.

235/Cal/92 Abb Lummus Crest Inc., “Process for extending the life of alkylation catalysts”.

236/Cal/92 Karl Storz, “Endoscopic Forceps”, (Convention of application No. 91121 221.5 dated 11th December, 1991, U.K.).

The 8th April, 1992

237/Cal/92 Seun-yung Chung, and Shin Jeong Yil, “Men's underpants”.

238/Cal/92 E. I. Du Pont De Nemours and Company, “Electroless plated arimid surfaces.”

#### ALTERATION OF DATE UNDER SECTION 16

170760 Filed on 15 Jun 1989.

(519/Del/89) Ante-dated to 08 Sept 1986.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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## स्वीकृत सम्पूर्ण विनिदेश

एतद्वारा यह सूचना थी जाती है कि सम्बूध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक विनिदेश की अधिकता, इसके निर्गम की तिथि से 4 महीने या अधिक एसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवंटित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को एसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अधिवा पटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिदेश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुसूत हैं।”

नीचे सूचीगत विनिदेशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बृक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में दिक्षित हेतु यथा समय उपलब्ध होंगी। इत्येक विनिदेश का मूल्य 2/- रु. है।

(अंतरिक्ष डाक खर्च)। मुद्रित विनिदेश की आपूर्ति हांत मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिदेशों की संख्या संलग्न रहनी चाहिए।

खण्डक (चित्र आवेदनों) की फोटो प्रतियां दोहरे हों, के साथ विनिदेशों की टार्किंग अथवा फोटो प्रतियों की आपूर्ति एटेंट कार्यालय, कलकत्ता द्वारा विहित लिपान्तरण प्रधार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिदेश की पृष्ठ संख्या के

साथ प्रत्येक स्वीकृत विनिदेश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिपान्तरण प्रधार 4/- रु. है) फोटो लिपान्तरण प्रधार का परिकलन किया जा सकता है।

Ind. Cl. : 4 A<sub>1</sub>

170751

Int. Cl. : B64C 17 00.

## A DIRECTIONAL AND STABILISING DEVICE FOR AIRCRAFT AND A HELICOPTER HAVING SUCH A DEVICE.

Applicant : AEROSPATIALE SOCIETE NATIONALE INDUSTRIELLE, a company organised and existing under the laws of France, of 37 Boulevard de Montmorency, F-75016 Paris, France.

Inventors : RENE LOUIS MOUILLE & PHILIPPE ALAIN ROLLET.

Application for Patent No. 485/DEL/87 filed on 05 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 13 Claims

A directional and stabilizing device for aircraft with rotating wings having at least one rotor (1) which, in lift rotor configuration, is driven mechanically in rotation by at least one engine (3) while absorbing the drive power at least partially, and whose fuselage (4) is subjected to the reaction of the drive torque driving the lift rotor (1), which reaction must be compensated for, said device (6) comprising in combination :

a faired antitorque rotor (7) having a multiblade variable pitch propeller (8) mounted, on the one hand, coaxially in a faired aperture (9) of circular section formed transversally in a fairing (10) situated at the rear of the fuselage (4), and driven, on the other hand, in rotation about the axis of said aperture (9), and

a "V" empennage (14) carried by the fairing (10) which houses the faired rotor (7) and having two aerodynamic surfaces (15, 16) disposed in a V, which are joined together at the top of the fairing (10) which houses the faired rotor (7) without coming below a horizontal plane passing through this top, wherein

the mean plane of (Z<sub>10</sub>—Z<sub>10</sub>) the fairing (10) housing the faired rotor (7) and the plane of rotation of the faired rotor (7) are slanted with respect to the plane of symmetry (X-X) of the aircraft by an angle situated in an angular range going from 0 to 45°,

the direction of rotation of the faired rotor (7) and the pitch control of the blades of the rotor provide said blades with a positive pitch whereby the resultant thrust along the axis (Y<sub>10</sub>—Y<sub>10</sub>) of the rotor is directed in a direction such that, on the one hand, the component of the said thrust parallel to the general transverse axis of the aircraft creates, on the fuselage, with respect to the axis of the main rotor, a moment opposing the drive torque of the main rotor, and, on the other hand, the component of this same thrust parallel to the general vertical axis of the aircraft is directed upwards,

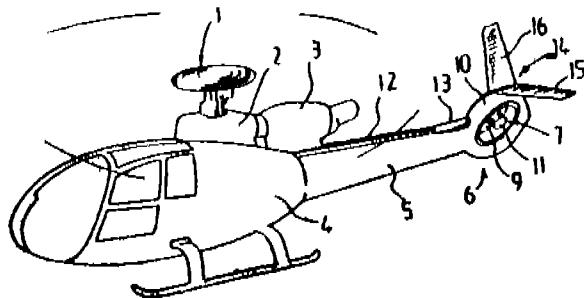
each of the two aerodynamic surfaces has a mean plane and the two mean planes extend on each side of the vertical plane including the general longitudinal axis of the aircraft, the mean plane of the first aerodynamic surface is placed, with respect to the vertical plane, on the side which is opposite that towards which the thrust of the antitorque rotor is directed in stationary flight whereas the mean plane of the second aerodynamic surface is placed, with respect to the vertical plane, on the side towards which the thrust of the antitorque rotor is directed in stationary flight,

the mean plane of the first aerodynamic surface forms with the horizontal an angle situated in an angular range

from 0 to 45°, whereas the mean plane of the second aerodynamic surface forms with the vertical an angle situated in an angular range going from 0 to 45°.

said first aerodynamic surface has an aerodynamic profile such that, in translational flight, it generates a resultant aerodynamic force with a vertical negative lift component, that is to say directed downwardly, and

said second aerodynamic surface has an aerodynamic profile such that, in translational flight, it generates a resultant aerodynamic force having, on the one hand, a component parallel to the general transverse axis of the aircraft directed in the same direction as the component, along the same axis, of the thrust of the antitorque rotor and, on the other hand, a component parallel to the general vertical axis of the aircraft, directed downwardly.



(Complete specification 33 pages.—Drawing sheet 4).

Ind. Cl. : 10 F.

170752

Int. Cl. : F42B 13 10.

#### TUBULAR PROJECTILE.

Applicant : ROYAL ORDNANCE PLC., A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNITED KINGDOM, OF 5 GRIFFIN HOUSE, THE STRAND, LONDON WC2N 5BB, ENGLAND.

Inventors : JAMES EDWARD BAXTER & ROBERT DUNCAN POOLE.

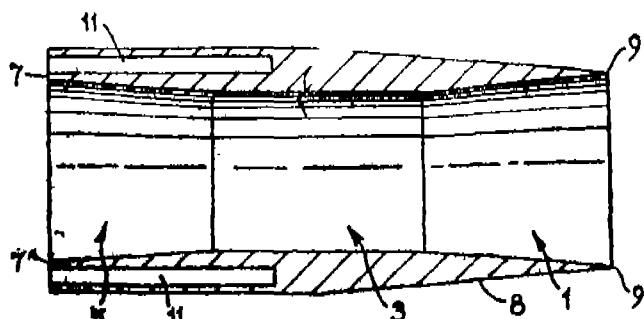
Application for Patent No. 1022/DEL/87 filed on 30 Nov 1987.

Convention date 28 Nov 1986/8628514/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A tubular projectile comprising a hollow tube having a front end (1) and a rear end (7), and having at least one recess (11) provided in the rear end (7) of the tubular wall thereof, said recess (11) containing a tracer material substantially conforming to the cross-section of the recess (11), said tracer material comprising a flexible polymer bonded pyrotechnic composition as described herein.



Ind. Cl. : 208.

170753

Int. Cl. : B43L 13/00.

#### SYSTEM FOR WRITING IN DEVANAGARI SCRIPT.

Applicant : SOCIETE D'APPLICATIONS GENERALES D'ELECTRICITE ET DE MECANIQUE S A G E M, A FRENCH COMPANY, OF 6 AVENUE D'IEA, 75783 PARIS CEDEX 16, FRANCE.

Inventor : DE CHEVRON VILLETTÉ.

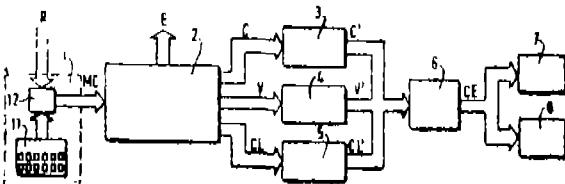
Application for Patent No. 494/DEL/87 filed on June 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 8 Claims

System for writing in Devanagari script, comprising :

- a generating device (1), for generating, in the form of a coded message (MC), a succession of characters from a set of characters distributed in several categories of characters,
- a recognition circuit (2), having an input and several outputs, said input being connected to said generating device (1) for receiving the coded message (MC), said recognition circuit (2) recognizing, in said succession of characters, groups of characters (C, V, CL) such that the sequence of the characters of a group have a configuration belonging to a set of several predetermined configurations and sending each of said groups of characters (C, V, CL) to one of said outputs, depending on the configuration of the sequence of the categories of characters of said group of characters, while eliminating the characters not belonging to any of said groups of characters (C, V, CL),
- several transcoding circuits (3, 4, 5), each having an input and an output, said input being connected to one of said outputs of said recognition circuit (2), respectively, each of said transcoding circuits (3, 4, 5) transcoding each of said groups of characters (C, V, CL) and delivering signals (C', V', CL') on their respective outputs,
- a generating circuit (6) having an input and an output, said input being connected to each of said output of said several transcoding circuits (3, 4, 5), said generating circuit (6) generating a writing control signal (CE), and,
- writing devices (7, 8), each having an input connected to said output of said generating circuit (6), said writing devices (7, 8) writing, in response to said writing control signal (CE), a succession of graphisms representative of said succession of characters.



(Complete specification 33 pages.—Drawing sheet 1).

Ind. Cl. : 71 BXXXI X (3).

170754

Int. Cl. : E02D 17 06.

#### TRENCHING APPARATUS.

Applicant : CONTINUOUS CONCRETE CASTINGS PTY. LTD., A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF QUEENSLAND, COMMONWEALTH OF AUSTRALIA, C/O HORWATH & HORWATH, OF 27 TURBOT STREET, BRISBANE, AND 4111, A.

Inventor : PAUL CAMILLERI.

Application for Patent No. 501/DEL 87 filed on 10 Jun 1987.

Convention date 13 Jun 1986/PH 6409: Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

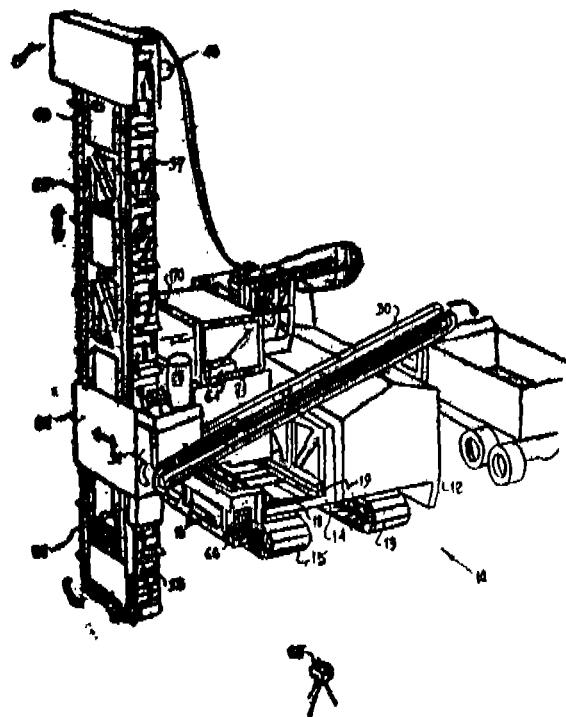
10 Claims

Trenching apparatus (10) comprising :—

a supporting base (11) capable of being moved in a longitudinal direction along an excavation line;

a carriage (14, 21) mounted to said supporting base by a mounting, said mounting restraining said carriage to longitudinal movement relative to said supporting base; and

a trenching (25) arm supported by said carriage, said carriage moves relative to said supporting base, to excavate a section of trench along said excavation line, said mounting being mounted to said supporting base by a (16) pivot having a longitudinal pivot axis such that said trenching arm may be inclined relative to said supporting base.



(Complete specification 21 pages.—Drawing sheets 12).

Ind. Cl. : 167 G.

170755

Int. Cl. : B07B 1/00 & 1/16.

**SIFTER FOR SEPARATING FINER PARTICLES FROM COARSE PARTICLES.**

Applicant : KRUPP POLYSIUS AG., OF GRAF-GALEN-STRASSE 17, 4720 BECKUM, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors : GOTTHARDT BLASCHYZK, HUBERT EICK-HOLT, HEINRICH HENNE, OTTO HEINEMANN, NORBERT BREDEHOLLER, PETER TIGGESBAUMKER, LUDGER KIMMEYER & MICHAEL VON SEEBAACH.

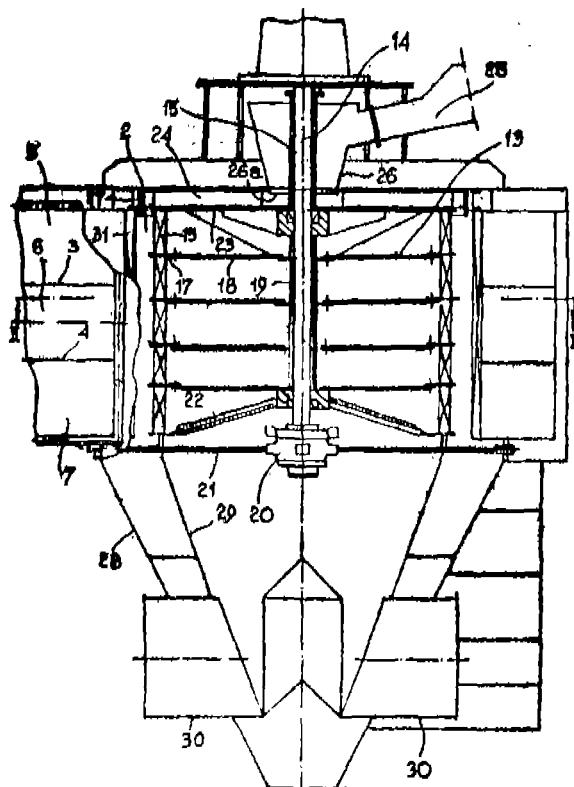
Application for Patent No. 508/DEL 87 filed on 12 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

Sifter for separating finer particles from coarse particles comprising :

- (a) a sifter housing with a spiral (1) which opens tangentially into the sifting chamber (2) and is provided with air baffles (31) for the delivery of sifting air, a hopper (28) for removal of the coarse material and at least one connection (30) for removal of the sifting air charged with fine material, an inlet preferable of a bell type distributor (26) is located coaxially with a drive shaft (15) for supply of feed material,
- (b) a rotor (13) which is rotatable about a vertical axis (14) is provided with rotor blades (16) on its periphery and has an opening for the escape of the sifting air charged with fine material in the region of one end,
- (c) means (25, 26, 27) for delivering the material for sifting to the upper end of the rotor (13) and for deflecting the material which is moved outwards by the rotor, so that the material for sifting passes downwards through the annular sifting chamber (2) formed between stationary air baffles (31) and the rotor blades (16),
- (d) the spiral (1) for the delivery of the sifting air is divided by partitions (3, 4) into at least two channels (5, 6, 7) lying one above the other from which the sifting air flows into the sifting chamber (2) at different levels,
- (e) the individual channels (5, 6, 7) are provided with elements (8, 9, 10) for setting the quantity and/or speed of the sifting air delivered through the individual channels (5, 6, 7).



(Complete specification 13 pages.—Drawing sheets 2).

Ind. Cl. : 102 D.

170736

Int. Cl. : F15C 1 00.

## PARALLEL REDUNDANT ACTUATOR APPARATUS.

Applicant: GEC-MARCONI LIMITED, FORMERLY KNOWN AS GEC AVOINICS LIMITED, A BRITISH COMPANY, THE GROVE, WARREN LANE, STANMORE, MIDDLESEX HA4 7LY, ENGLAND, FORMERLY OF AIRPORT WORKS, ROCHESTER, KENT ME1 2XX, ENGLAND.

Inventor: RICHARD BARTLETT SMITH.

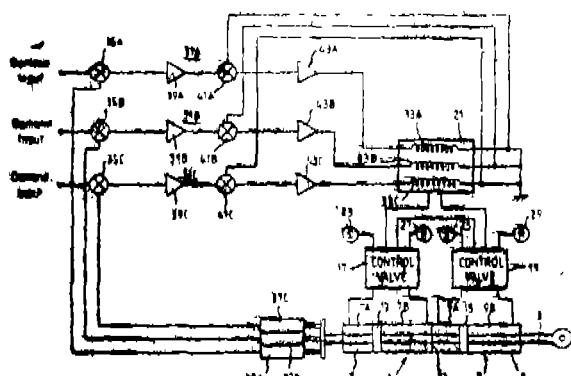
Application for Patent No. 510/DEL/87 filed on 15 Jun 1987.

Convention date 20 Jun 1986/8615145/UK.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

A parallel redundant actuator apparatus of the kind comprising: a plurality of signal lanes (31A, 31B, 31C) each responsive to the difference between a respective demand signal representing a desired position of an output member (3) of the apparatus and a respective feedback signal provided by a feedback path extending between said output member and the input of the signal lane to form an output member position feedback loop for that signal lane, said feedback signal representing the actual position of said output member (3); a summing means (41A-C, 43A-C, 33A-C, 21) to which the outputs of said signal lanes (31A, 31B, 31C) are connected to produce an output signal representative of the sum of the outputs of said lanes (31A, 31B, 31C); and an actuator (1) to which the output of said summing means (35A, 35B, 35C) is connected to control the position of said output member (3) wherein said summing means exhibits a non-linear input/output characteristic whose slope over a range of values of input in which changes of input due to failure of another lane occur is greater than for a linear characteristic over the range of values of input over which the lane is capable of operation.



(Complete specification 12 pages.—Drawing sheets 2).

Ind. Cl. : 128 G X1 × (2).

170757

Int. Cl. : B01D 13/00.

A THREE-WAY CONNECTOR FOR THE EX-  
CHANGE OF LIQUIDS IN PERITONEAL DIALYSIS  
APPARATUS AND PERITONEAL DIALYSIS APPAR-  
ATUS IN CORPORATING SAID CONNECTOR.

Applicant: CONTEMPO PRODUCTS, P. HERRLI, OF  
ALPENSTRASSE 15 A, 2502 BIEL, CANTON OF BERNE,  
SWITZERLAND.

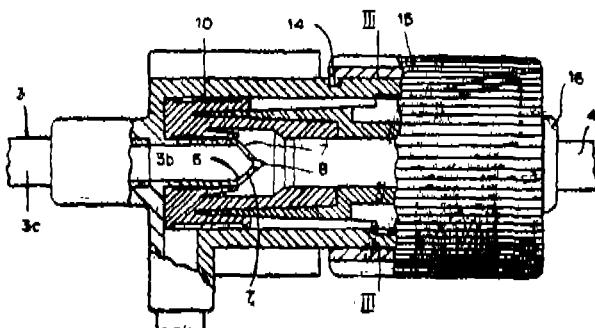
Inventor: PETER HERRLI.

Application for Patent No. 513/DEL/87 filed on 16 Jun 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

A three-way connector for the exchange of liquids, in which a connection tube (3), a supply tube (4) supplying fresh liquids, and a drain tube (5) carrying off used liquid each inserted fluid-tightly, at one end into the body (1) wherein one end of the connection tube (3) opens out into a tubular duct (3b), the said body (1) having a chamber (2) characterised in that in the said body (1), one end (4a) of the supply tube (4) and at least one end region of the duct (3b) are coaxially aligned, one end (5a) of the drain tube (5) opening out into the said chamber (2), and the one end (4a) of the supply tube (4) being closed by a diaphragm (9) filled with the fresh liquid, and disposed axially displaceably in the said chamber (2) for the purpose of establishing a flow connection via the said duct (3b) to the said connection tube (3), one end of said duct (3b) is verged into a cone provided with apertures (7) and having a pointed tip (8) of hard material, one end (4a) of the supply tube (4) is enclosed by an appendage (9) and a recess (11) corresponding to the shape of the tip (8) of the said cone (6) is located in the centre of the projecting free end of the said appendage (9) and is closed by the said diaphragm (9), the said body (1) is provided with a control groove (13) for controlling the rate of flow of the fresh liquid.



(Complete specification 13 pages.—Drawing sheets 6).

Ind. Cl. : 171

170758

Int. Cl. : C03C 17/28.

A PROCESS FOR PREPARING AN OPHTHALMIC OR  
PLANO-LENS.

Applicant: THE PLESSEY COMPANY PLC, A  
BRITISH COMPANY, OF VICARAGE LANE, ILFORD,  
ESSEX IG1 4AQ, ENGLAND.

Inventors: HARRY GEORGE HELLER, STEPHEN  
NIGEL OLIVER, JOHN WHITSTALL, JACK BRETTLE,  
MARTIN W. BASKERVILLE & CLIVE TRUNDE.

Application for Patent No. 514/DEL/87 filed 16 June, 1987.

Convention date 17 June 1986/8614680/UK.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 15 Claims

A process for preparing an ophthalmic or planolens which darkens in sunlight and reverts to a pale or colourless condition in white light at normal ambient temperature, said process comprises coating in a manner such as herein described the lens with at least two heliochromic compounds, one of said compounds comprising an adamantane spiro-benzopyran or spironaphthopyran in which an adamantane group is present in the 2-spiro-position of the benzopyran or naphthopyran ring and a second compound comprising a benzo or naphthopyran having a nitrogen-containing substituent in the 2-position of the pyran ring.

(Complete specification 38 pages

Drs. 14 sheets)

Ind. Cl. : 32 E 1x(1)

170759

Int. Cl.<sup>4</sup> : C08 G83/00.

## PROCESS FOR PREPARING POLYMERS FROM CARBOXYLIC ACID MONOMERS.

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 3925 EMBASSY PARKWAY, AKRON OHIO 44313, U.S.A.

Inventor : CHIN CHIEN HSU.

Application for Patent No. 518/Del/87 filed on 17 June 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

## 13 Claims

A process for preparing polymers from carboxylic acid monomers, said polymers containing less than 0.2% of unreacted monomer and having greater than 1% of the carboxyl groups of said acid monomer neutralized comprising Polymerizing a monomer charge containing an olefinically unsaturated carboxylic acid monomer and its salt containing 3 to 5 carbon atoms at a temperature of 40 to 85°C in the presence of a solvent, a free radical initiator of the kind such as herein described and a cross-linker of the kind such as herein described.

(Complete specification 22 pages).

Ind. Cl. : 140 A<sub>2</sub>

170760

Int. Cl.<sup>4</sup> : C10L 1/10.

## A FUEL COMPOSITION.

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, U.S.A.

Inventors : STEPHEN HOWARD STOLDT &amp; REED HUBER WAISH.

Application for Patent No. 519/Del/89 filed on 15 June 1989.

Divisional to Patent Application No. 798/Del/89 filed on 08 September 1986.

Ante-dated to 08 September 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

## 12 Claims

A fuel composition comprising :

a major amount of a fuel; and an additive composition comprising,

(I) an oil-soluble, transition metal complex of Mannich base, as herein described; and

(II) an oxime as herein described.

the molar ratio of (I) : (II) being 1 : 10 to 10 : 1;

the concentration of said additive composition in said fuel being based on the concentration of said metal in said fuel, the concentration of said metal in said fuel being from 1 to 500 ppm.

(Complete specification 38 pages

Drg. 2 sheets)

Ind. Cl. : 179 B G XI(6)

170761

Int. Cl.<sup>4</sup> : B 65 D 75/62.

## DEVICE FOR THE PERFORATION OF A PACKAGE MADE OF FLEXIBLE-SYNTHETIC MATERIAL.

Applicant : SOCIETE GENERALE DES EAUX MINERALES DE VITTEL, OF B.P. 43, 88800 VITTEL, FRANCE, 2 FRENCH COMPANY.

Inventor : MICHEL CAZES.

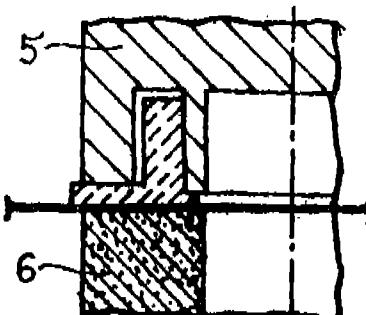
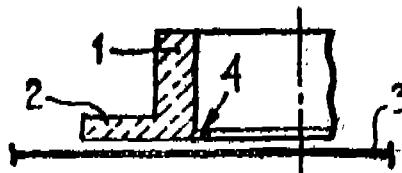
Application for Patent No. 527/Del/87 filed on 22 June 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

## 4 Claims

A device for perforating a package made of flexible synthetic material, comprising a stoppage and pouring unit consisting of a cylindrical stem (1) having a stopper for closing one end of said stem, (1) said stopper being provided with means for cutting (10) and perforating the package wall by screwing or pressure to allow pouring of a liquid contained in said package, characterised in that said cylindrical stem (1) has at an opposite end or base (2) thereof a protruding portion (4)(9) extending radially inward of said base, (2) said protruding portion (4, 9) of said base (2) being integral therewith and providing a reinforcement for a cutting zone of flexible synthetic material underlying said stem (1) when said stem (1) is attached to the package made of flexible synthetic material.

F1 .1a



(Complete specification 6 pages

Drg. 1 sheet)

Ind.

Int. Cl.<sup>4</sup> : A 61 M 16/00.

## RESUSCITATOR.

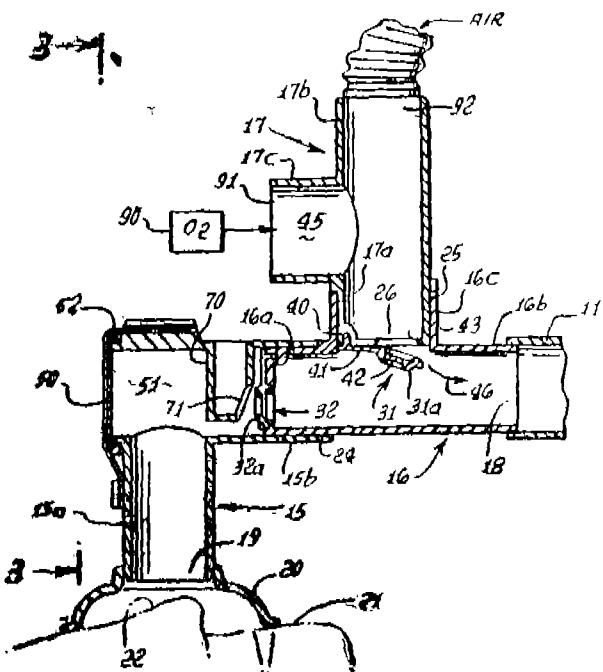
Applicant &amp; Inventor : JACK BAUMAN, A U.S. CITIZEN OF 1677 SAN ONOFRE, DRIVE, PACIFIC PALISADES, CALIFORNIA 90272, UNITED STATES OF AMERICA.

Application for Patent No. 532/Del/87 filed on 23 June 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A resuscitator comprising a manually collapsible air receptacle (10) having an air discharge outlet, (11) tubing sections (15, 16, 17) connected in series and having air inlet means (18) connectible in air passing relation with said receptacle discharge outlet, and an air outlet (19) connectible in air passing relation with a mask (20) to be placed against the patient's face, (21) first and second flap valves (31, 32) positioned in at least one tubing section so that the first flap valve opens and passes air to said receptacle when the second flap above is closed, and so that the second flap valve opens and passes air from the receptacle to the mask when the receptacle is squeezed and the first flap valve is closed, and air pressure responsive indicator means carried by one section to indicate the extent of pressure build-up between the second valve and said tubing section air outlet.



(Complete specification 15 pages

Drg. 2 sheets)

Ind. Cl. : 13 A

170763

Int. Cl. : B 65 D 3/06.

APPARATUS FOR FORMING CONTAINER END PANEL.

Applicant : REDICON CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELWARE, UNITED STATES OF AMERICA, OF 4150 BELDEN VILLAGE STREET, CANTON OHIO 44718, U.S.A.

Inventor : JOSEPH DANIEL BULSO JR. & JAMES ARDELL McCLUNG.

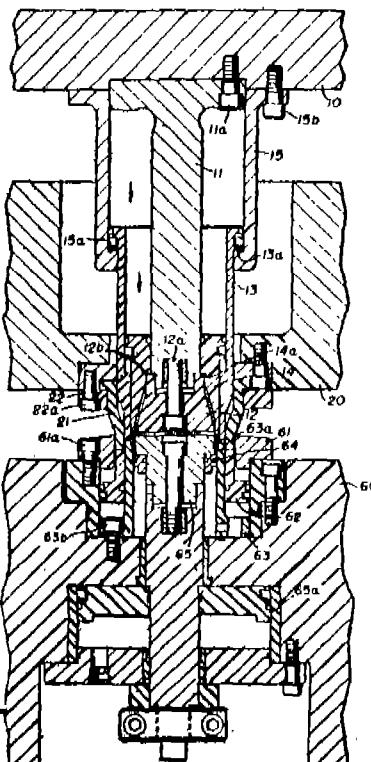
Application for Patent No. 533/Del/87 filed on 23 June 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

Apparatus for forming a container end panel having a central bottom panel, a peripheral flange and chuckwall and countersink radius interconnecting said flange and said bottom panel in a press having a movable platen and a fixed base (60), characterised by an inner punch core (12) mounted on said movable platen; (10) an outer

punch core (14) mounted on said movable platen in concentric relationship with said inner punch core; (12) a first pressure sleeve (13) mounted on said movable platen in concentric relationship with said outer punch core (14); a punch shell (21) mounted on said movable platen in concentric relationship with and radially outboard of said first pressure sleeve; (13) a die core (65) mounted on a fixed base (60) in opposed relationship with said inner punch core; (12) a fixed die core ring (63) mounted on said fixed base (60) in opposed relationship with said first pressure sleeve (13) and concentric with said die core; (65) and a second pressure sleeve (62) mounted on said fixed base (60) in opposed relationship with said punch shell (21) and concentric with said die core ring (63).



(Complete specification 13 pages

Drg. 10 sheets)

Ind. Cl. : 128 G

170764

Int. Cl. : GO1N 33/48.

AN IMPROVED BLOOD ANALYSIS EQUIPMENT.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RAGHBIR SINGH KHANDPUR, ASHOK KUMAR BHANDARI AND SARUP SINGH RANDHAWA.

Application for Patent No. 727/Del/87 filed on 20 August 1987.

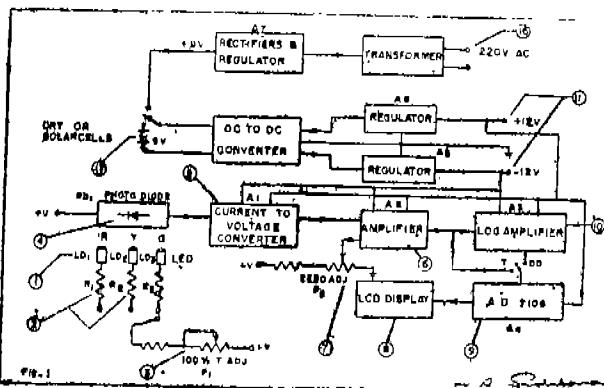
Complete Specification left on 30 May 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

An improved blood analyser which comprises a light source consisting of one or more high luminosity light emitting diode(s) LED(1), the LED(s) being provided with respective current limiting resistance(s) connected in series to a potentiometer (3) for adjustment of 100%

transmittance, a photo detector (4) being fixed opposite to the light source in such a manner that a space (12) being provided in between the light source and photo detector, a holder (13) being placed in the said space, for keeping the blood sample to be analysed, the photo detector (4) being connected to the input of a current to voltage converter (5), output of the current to voltage converter (5) being the input to an amplifier (6), the amplifier (6) being provided with a potentiometer (7) for adjusting zero transmittance when no light falls on the blood sample, the output of the amplifier being connected to a LCD display (8) through an analog to digital converter (9) for displaying the results in transmittance and to a logarithmic amplifier (10) for displaying the test results in optical density means 11, 16 & 17 being provided for supplying regulated power to the equipment.



(Provisional specification 10 pages  
(Complete specification 17 pages

Drg. 2 sheets)  
Drg. 7 sheets)

Ind. Cl. : 103  
Int. Cl. : C23F 11/14.

A PROCESS FOR THE PREPARATION OF AN INHIBITOR FOR MULTI PURPOSE APPLICATIONS SUCH AS CORROSION INHIBITION PICKLING AND CLEANING OF METALS AND ALLOYS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

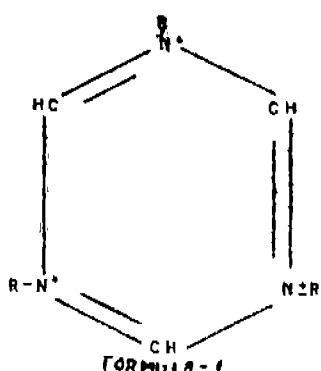
Inventors : DAVENDRA DEO NARAIN SINGH & KRISHNA PRASAD MUKHERJEE.

Application for Patent No. 730/Del/87 filed on 21 August 1987.

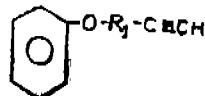
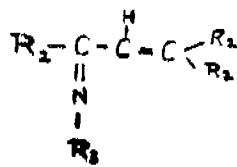
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 1 Claim

A process for the preparation of an inhibitor suitable for multipurpose application such as corrosion inhibition pickling and cleaning of metals and alloys which comprises adding a cyclic trimer of the formula 1



wherein R represent alkyl, phenyl or cyclic amino group to a mixture of compounds of the formula (2) & (3) wherein



wherein  $\text{R}_2$  is  $\text{C}_n\text{H}_{2n+1}$ ,  $\text{R}_3$  is phenyl group,  $\text{R}_1$  is  $\text{C}_n\text{H}_{2n}$  and  $n = 1$  to 8 refluxing

the resulting mixture under constant stirring at a temperature in the range of  $60^\circ$  to  $80^\circ\text{C}$ , adding to the resultant refluxed solution cuprous chloride and an amino carboxylic acid.

(Complete specification 9 pages

Drg. 2 sheets)

170766

Int. Cl. : C09 C 1/52.

#### AN APPARATUS FOR THE PRODUCTION OF CHANNEL BLACK.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : DILIP KUMAR DUTTA, ROMESH CHANDRA BORAH, UMESH CHANDRA BORAH, UMAPADA CHOWDHURY, HEREMBA PRASAD SARMA, PARUCHURI GANGADHAR RAO AND VIJAY RAGHAVAN.

Application for Patent No. 782/Del/87 filed on 3 September 1987.

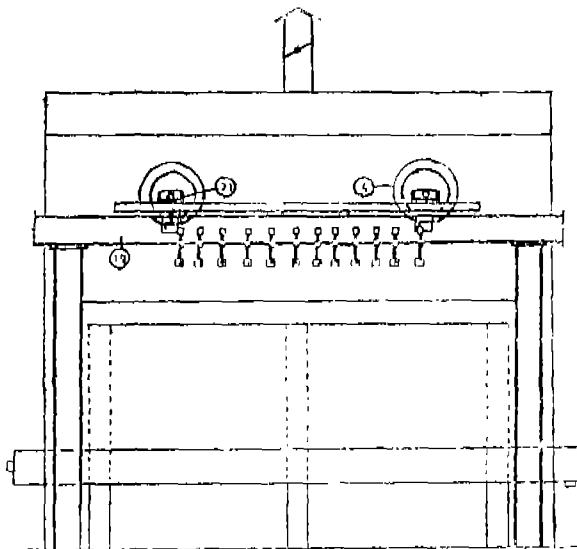
Complete Specification left on 27 OCT 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 2 Claims

An apparatus for the production of channel black from gaseous fuel such as natural gas which comprises a chamber closed at the bottom and provided with a housing (11), the said housing (11) having at the top a stack (12) incorporating a valve (13) for the control of combustion of air by creating natural draught in the chamber, the bottom walls of the chamber being provided with baffles (14) regulating the flow of air into the chamber for burning the gases to be burned in the required & controlled manners, header (15) provided at one side of the chamber at the top to supply natural gas to the chamber, the header (15) being attached to a pipe (16) and connected to another pipe (16A) having plurality of burners for flame production, each burner consisting of a lower portion which is threaded and in the form of a nozzle (17a) and an upper portion having a circumferential slit (17b), a pipe (18) having a shaft eccentrically fixed to the both ends & fixed below the pipe (16) to adjust the height of the flame of the burners, plurality of metallic channels (1) arranged above the said nozzles for the deposition of channel black which is formed, the said channels connected to a wheel (4) through a shaft (3), guide flanges (5) provided to restrict the lateral movement of the wheels, the wheels travelling over the "I" beams (4A) placed longitudinally, the "I" beams (4A) acting as rails for facilitating to and fro longitudinal movement of the wheel, the movement being

a crank disc (8) cross head (6) and connecting rod (7), scrapping blades (19) placed in between the channel and the burner for the periodical scrapping of the deposited channel black, a collector (21) provided below the pipes for collecting the channel black and a screw conveyor (22) being provided at the bottom of the collecting chamber for removing the channel black formed.



(Provisional specification 5 pages

Drg. 2 sheets)

(Complete specification 8 pages).

IND. CL. : 128 C

170767

Int. Cl. : G 01 N 27/00.

AN ELECTROCHEMICAL MONITOR FOR THE QUANTITATIVE ESTIMATION OF MERCURY AND OTHER METAL CATIONS SUCH AS  $Cu^{++}$ ,  $Ag^{+}$ ,  $Pb^{++}$ , IN SOLUTION.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT, (ACT XXI OF 1860).

Inventors : KAILATHUVALAPIL INNIRI VASU, NAVIN CHANDRA, GANESA GANAPADIGAL, SUBRAMANIAN, SIVASAMY BIRLASEKARAN & SUSAI VINCENT.

Appplication for Patent No. 989/DEL/87 filed on 18 Nov. 1987.

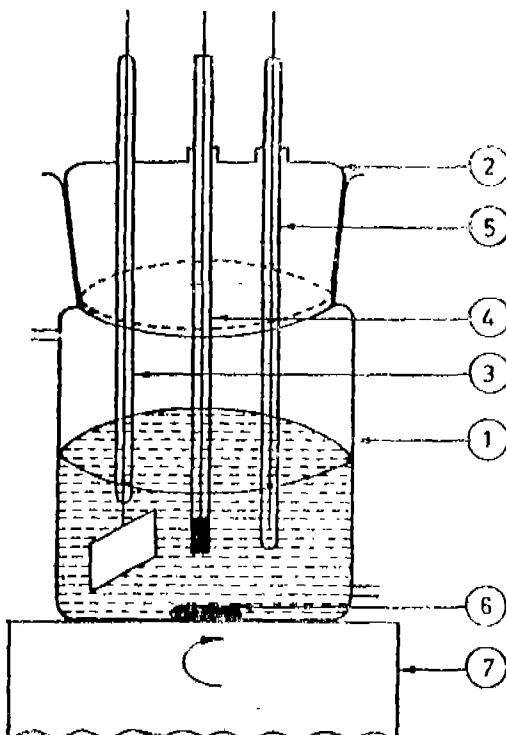
Complete specification left on 17 Feb. 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

An electrochemical monitor for the quantitative estimation of mercury and other metal cations such as  $Cu^{++}$ ,  $Ag^{+}$ ,  $Pb^{++}$  (*in solution*) which comprises an electrolytic cell made of glass or plastic container (1) to contain the sample solution under stirring condition, the cell being provided with a lid (2) having plurality of holes, through one of which passes a glassy carbon working electrode (4) into the cell, a silver/silver chloride reference electrode (5) being passed through another hole in the lid, the lid also having means for pouring and withdrawing the sample solution to and from the cell, a platinum foil counter electrode (3) being fixed in the cell, the terminals of the reference electrode, glassy carbon working electrode and platinum foil electrode being connected to the corresponding terminals of a known electro-

value with respect to the silver/silver chloride reference electrode for a fixed period of time; a programmable clock function generator (3) connected to the input terminal of the potentiostat (2) to generate a linear potential ramp signal to sweep the potential of the glassy carbon electrode from the initial preset value to a desired final potential at a suitable sweep rate at the end of the required preset time interval, as well as, to automate the entire sequence of operation, a known peakhold circuitry (4) connected to the output terminal of the potentiostat (2) to record and display the maximum current and a panel meter having light emitting diode (LED) display connected to the output of the said peakhold circuitry (4).



(Provisional specn. 7 pages

(Compl. specn. 11 pages

Drgs. 3 sheets)

Drg. 1 sheet)

IND. CL. : 190 B, C

170768

Int. Cl. : F 02 C 1/00 & 1/06.

## GAS TURBINE, EXHAUST DEVICE.

Applicant : VIBRACHOC, OF PARC D'ACTIVITES DE L'EGLANTIER CE 2804 LISSES 91028 EVRY CEDEX, FRANCE, A FRENCH BODY CORPORATE.

Inventors : JACQUES RIGAULT & PIERRE BONNET.

Application for Patent No. 1078/DEL/87 filed on 15 Dec. 1987.

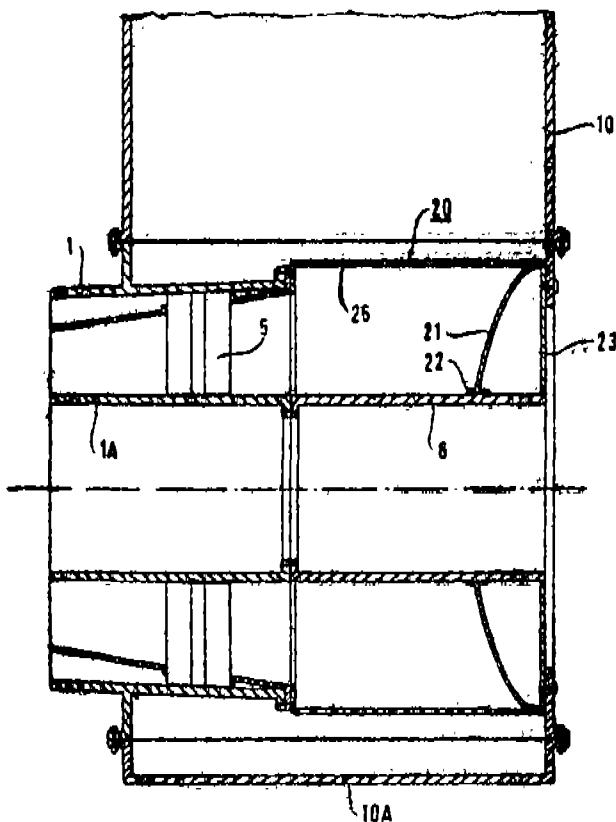
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A gas turbine exhaust device said device comprising a jet diffuser (20) mounted on an exhaust tube (1) of said gas turbine and located between an outlet of a guide vane stage (5) and an exhaust duct (10) of said gas turbine said jet diffuser (20) being co-axial with said gas turbine and is provided with orifices (25) opening into said exhaust duct (10),

logarithmically with increasing distance from said outlet of said gas turbine thereby providing uniform flow of gas at constant ejection speed.

top cover of the shaving kit when the safety razor is not in use.



(Compl. specn. 5 pages)

Drg. 1 sheet)

IND. CL. : 189

170769

Int. CL. : A 45 D 27/00, 27/22, 27/24 & 27/28.

#### COMPACT SHAVING KIT.

Applicant : & Inventor : DR. ASHUTOSH SHARMA, KARL-FRANZENS UNIVERSITA, INSTITUT FUR ORGAN CHEMIE, ANALYTISCHE ABTEILUNG A-8010 GRAZ-AUSTRIA.

Application for Patent No. 1101/DEL/87 filed on 18 Dec. 1987.

Complete Specification left on 17 Mar. 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 8 Claims

A compact shaving kit comprising a container having a base on which is mounted a small container which contains the shaving soap stick/cream, a shaving brush having a hollow handle mounted over the small container such that the hollow handle of the brush completely encloses the small container, a top cover completely encloses the shaving brush and is tightly pressed over and held by the base of the container, the top face of the said top cover at its edge is provided with a socket in which the handle of a safety razor is mounted in such a manner that it is adapted to be rotated through an angle of 180° to lie flat on the top face of the

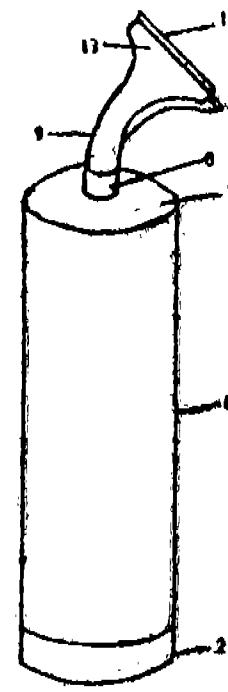


FIGURE 4

(Provisional Specn. 4 pages

Drg. 1 sheet)

(Compl. specn. 8 pages

Drg. 3 sheets)

IND. CL. : 32 F<sub>3</sub>\*

170770

Int. CL. : C 07 D 323/06.

#### A PROCESS FOR THE SYNTHESIS OF 6-( $\alpha$ - ARYL-VINYL)-1, 2, 4-TRIOXANES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

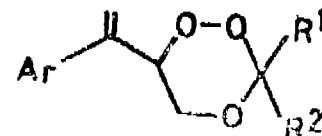
Inventors : CHANDAN SINGH, DHARMENDRA MISRA, SUBHASH CHANDRA, SHASHI KANT & AFTABUL ISLAM.

Application for Patent No. 1104/DEL/88 filed on 15 Dec. 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 5 Claims

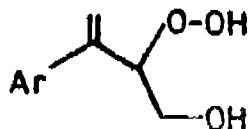
A process for the synthesis of 6 ( $\alpha$  - arylvinyl) 1, 2, 4-trioxanes of the formula II



Formula II

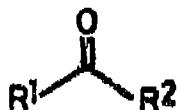
where Ar represents phenyl or a substituted phenyl with one or more electron donating and electron withdrawing groups as substituents R<sub>1</sub> and R<sub>2</sub> represent hydrogen, and alkyl

like methyl, ethyl, aryl like phenyl, substituted phenyl or parts of cyclic system, which comprises condensation of the  $\beta$ -hydroxyhydro peroxides of formula I



Formula I

where Ar have the meaning given above with aldehydes or ketones of formula IV



Formula IV

where R1 and R2 have the meaning as given above in the presence of an acid catalyst and an aprotic solvent such as herein described at a temperature of 0°C to room temperature isolating and purifying the resultant product by known methods.

(Provisional Specn. 5 pages).

(Compl. specn. 6 pages

Drg. 3 sheets)

IND. CL. : 93

170771

Int. Cl. : 22 F 3/00.

"A PROCESS FOR PREPARING COPPER OR COPPER ALLOY INFILTRATED STRUCTURAL METAL FERROUS METAL OF ANY CONFIGURATION".

Applicants : SCM CORPORATION, AT 925 EUCLID AVENUE, CLEVELAND, STATES OF OHIO, UNITED STATES OF AMERICA.

Inventors : (1) MARK SVILAR, (2) STEPHEN GLANCY, (3) ERHARD KLAR.

Application No. 655/Cal/86 filed on August 29, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 7 Claims

A process for preparing copper or copper alloy infiltrated structural ferrous metal part of any configuration comprising the steps of :

- filling a die with plain carbon steel having a combined carbon content in the range of about 0.15% to about 1.25% based on the weight of the powder metal stainless steel, low alloy steel or tool steel ferrous powder metal to achieve uniform powder metal distribution in said die;
- pressing said powder metal to density of at least about 80% of theoretical density;
- Sintering said powder metal;
- infiltrating said powder metal with a copper or copper alloy infiltrant;

the filling, pressing, sintering and infiltrating conditions being effective to provide a powder metal part having

- residual uninfiltrated porosity of less than about 7 volume percent and
- a maximum pore size of the residual uninfiltrated porosity of less than about 1.25 micrometers both as measured from a worse filed of view in a functionally critical area of said metal part.

Compl. specn. 32 pages;

Drgs. 3 sheets.

IND. CL. : 155 BE

170772

Int. Cl. : D 04 H 3/00, D 04 H 3/10, D 04 H 3/12.

"METHOD OF PRODUCING AN ELASTIC, LAMINATED, WATER-PROOF, MOISTURE-PERMEABLE FABRIC".

Applicants & Inventors : (1) LEONARD JASON RAUTENBERG, OF WEST CREEK FARMS ROAD, SANDS POINT NEW YORK 11050, U. S. A. (2) MILTON MONTAGUE GILBERT, OF 19 SUSAN TERRACE, WATERFORD, CONNECTICUT 06365, U.S.A., (3) JAMES HENRY WYNER, OF 24 HOLYOKE STREET, BOSTON, MASSA AND DANIEL MARK WYNER, OF 7 HOLYOKE STREET, BOSTON MASSACHUSETTS 02138-4519, U.S.A.

Application No. 379/Cal/88 filed on May 11, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 15 Claims

A method for producing a breathable, water-proof laminated fabric comprising the steps of :

providing a first layer of an elastomeric film which is breathable and water-proof having a predetermined thickness up to 1.0 mil;

providing a second layer of a stretch material;

elongating said first layer a predetermined amount in the longitudinal direction;

elongating said second layer an amount in the longitudinal direction to substantially match the elongation of said first layer;

applying an adhesive which is curable at room temperature at substantially discrete areas to one of said layers so as to form adhesive segments thereon;

pressing together the layer without the adhesive to the layer to which the adhesive is applied while the elongation of said two layers is matched to bond the layers so as to form a laminate; and

curing at room temperature the adhesive applied to said laminated fabric while maintaining in known manner a longitudinal tension on said layers.

Compl. specn. 19 pages.

Drgs. 2 sheets

IND. CL. : 13 A

170773

Int. Cl. : B 67 C 3/00, B 67 D 3/00.

"PROCESS AND APPARATUS FOR MANUFACTURING FILLED CONTAINERS OF HEAT SEALABLE MATERIAL AND CONTAINERS THEREBY PRODUCED".

Applicants & Inventors : BERND HANSEN, OF HEERSTRASSE 20, 7166 SULZBACHLAUFEN2, WEST GERMANY.

Application No. 472/Cal/88 filed on June 9, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 10 Claims

A process of manufacturing a filled container of heat sealable material which is at least partially deformable comprising the steps of :

forming by blow molding a container with an open end; filling the elastically deformable container through said open end thereof to a first level of contents;

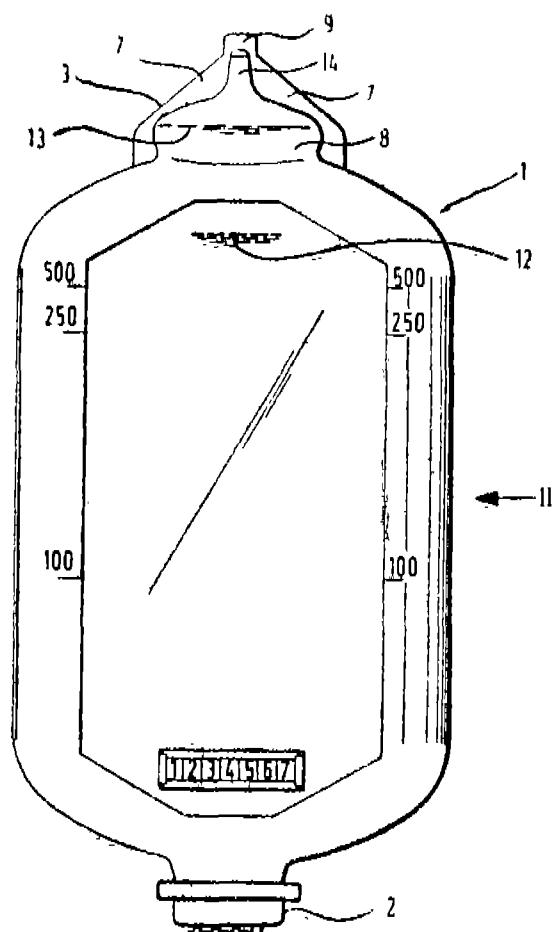
Forming a filling connection in a first heat sealing step, at the container open end having a flow passage with transverse cross-sectional dimensions smaller than a body portion of the container by pressing flat and heat sealing a border zone of the container open end after filling, the passage remaining open at a distal end thereof;

closing and sealing the distal end of the passage in a second heat sealing step; and

between the first and second heat sealing steps, raising the contents to a higher, second level inside the filling connection of the container by elastically deforming the container.

8 Claims

A process for the preparation of 1, 1, 1, -trifluorodichloroethane and 1, 1, 1, 2-tetrafluorochloroethane by fluorination of a tetrahaloethylene,  $C_2Cl_4-x F_x$ , wherein  $x=0$  to 3, comprising contacting in the gaseous phase at about 300°C to about 450°C said tetrahaloethylene and HF with a catalyst comprising at least one metal in an oxidation state greater than zero, said metal selected from the group consisting of chromium manganese, nickel, and cobalt, on a support consisting essentially of aluminum oxygen, and fluorine in such proportions that the fluorine content corresponds to an AlF content of at least 90% by weight of the catalyst composition exclusive of the metal, said AlF<sub>3</sub> content being obtained by pretreatment with HF, said optionally the step of recycling at least a portion of the  $CF_3-CHCl_2$  produced to the contacting step for conversion to additional  $CF_3-CHF_2$ , said catalyst contains from 0.02 to 5 weight per cent of metal expressed as the divalent oxide, and the HF is contacted with the tetrahaloethylene at a mol ration of between 1/1 to 20/1, at a temperature of between 300°C to 400°C, and a contact time of from 5 to 100 seconds.



Compl. specn. 14 pages

Drg. 2 sheets

IND. CL. 32 F

170774

Int. Cl. : C 07 C 19/00.

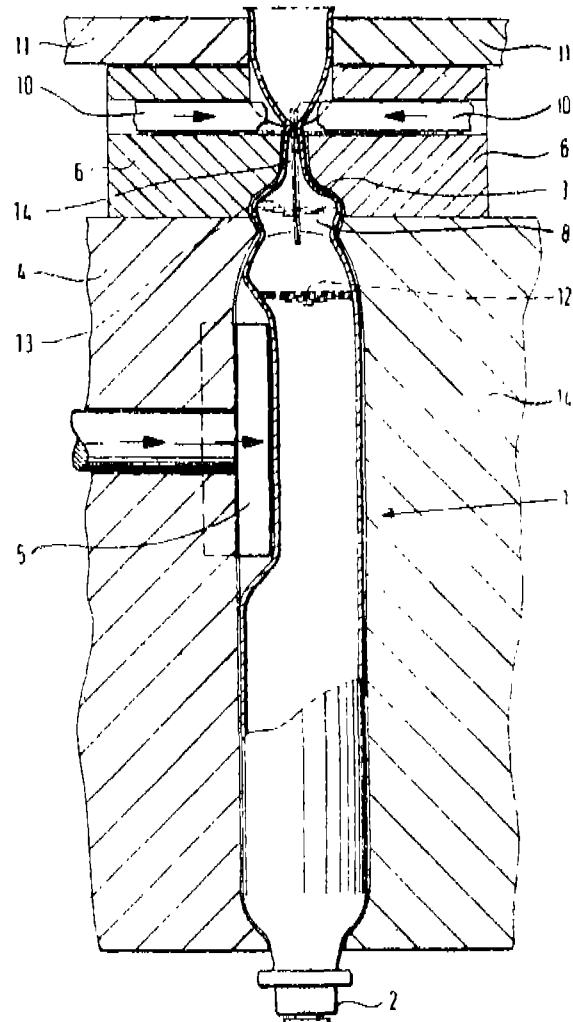
"A PROCESS FOR THE PREPARATION OF 1, 1, 1, -TRIFLUORODI-CHLOROETHANE AND 1, 1, 1, 2-TETRAFLUOROCHLOROETHANE".

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : (1) LEO ERNEST MANZER, (2) VELLIYUR NOTT MALLIKARJUNA RAO.

Application No. 556/Cal/88 filed on July 5, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



Compl. specn. 16 pages.

Drg. Nil

IND. CL. : 69 I

170775

Int. Cl. : H 02 B 13/04

**"A RELEASABLE CONNECTOR SYSTEM".**

Applicants : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : (1) ROLF MUELLER, (2) KARL-HEINZ GRONEMANN.

Application No. 557/Cal/1988 filed on July 5, 1988.

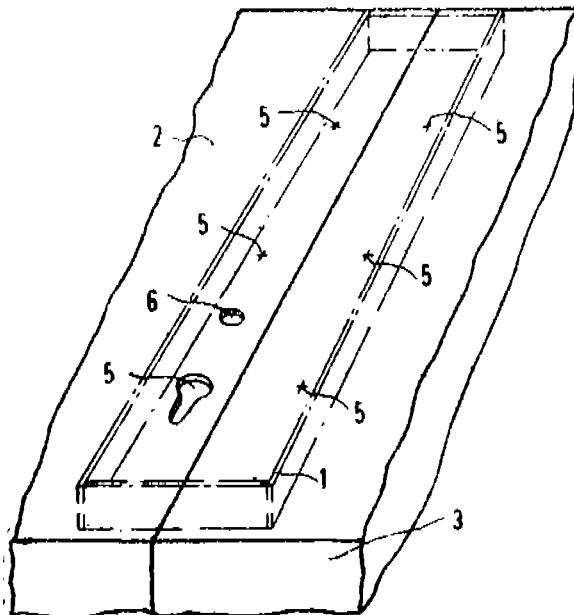
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**11 Claims**

A Releasable connector system having a connecting bar and two adjacent cabinets containing electrical switch gear, each of said cabinets having walls with outer faces and butt faces such that the cabinets can be arranged with butt faces lying against each other and the outer faces aligned, said connecting bar being capable of sliding along the outer faces over the butt of the adjacent cabinets so as to join them together, a set of fixing elements establishing the connection between the cabinets via the connecting bar and a bolt connection fixing the connecting bar in its final position after the sliding movement;

said connecting bar resting on the said faces of the walls of the adjacent cabinets;

at least two fixing elements being provided for each of said cabinet, said fixing elements comprising a mushroom shaped element on the bar or the cabinet outer wall and a slot in the wall or the bar respectively, said slot having a portion through which the mushroom head can pass, and a portion of smaller dimension through which only the stem of said mushroom shaped element can pass and the edges of which can be engaged by the head of the mushroom shaped element when slid into that part of the slot thereby retaining the connecting bar and the cabinets together.



Compl. specn. 11 pages

Drg 1 Nil

Cl. 32F<sub>2</sub>(a)

170776

Int. Cl. : C07c 87/54, 87/60.

**PROCESS FOR THE PRODUCTION OF 4-NITRODIPHENYLAMINE.**

Applicant : ICI INDIA LIMITED, ICI HOUSE, 34-CHOWRINGHEE ROAD, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventors : (1) KRISHNASWAMI SRINIVASAN,  
(2) BHAIRAB NATH ROY,  
(3) PRASAD SRIKRISHNA DIXIT.

Application No. 559-Cal/1988 filed on 05th July, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A process for the production of 4-nitrodiphenylamine which comprises subjecting a *N*-aryl derivative of diphenylamine to nitration at room temperature in a nitrating medium comprising nitric acid and one or more solvents such as herein described, maintaining in any known manner the concentration of nitric acid within the medium working up said reaction by hydrolysis and recovering in a manner known *per se* substantially pure 4-nitrodiphenylamine therefrom.

Compl. specn. 10 pages

Drgs. Nil

Cl. : 134-B

170777

Int. Cl. : B 60 k 41/16.

**A CONTROL SYSTEM FOR A SPLITTER TYPE CHANGE GEAR AUXILIARY TRANSMISSION SECTION.**

Applicant : EATON CORPORATION, 1111 SUPERIOR AVENUE, CLEVELAND, OHIO-44114, U.S.A.

Inventor : THOMAS ALAN GENISE.

Application No. 657/Cal/1988 filed on 03 August 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**4 Claims**

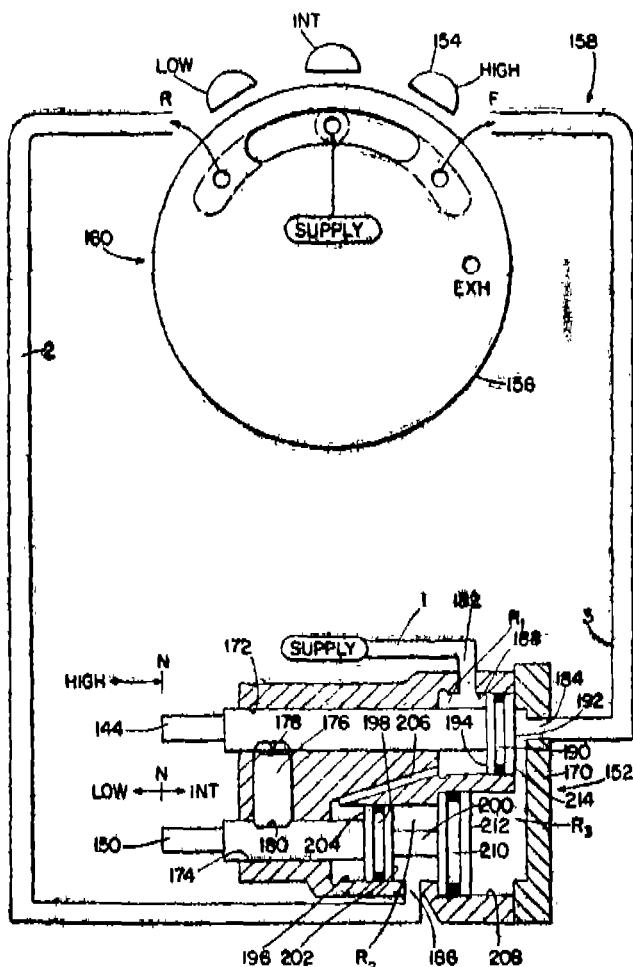
A control system for a splitter type change gear auxiliary transmission section (14) having at least three engagable auxiliary speeds (Low, Int. High) of the type permitting pre-selection of an auxiliary section gear change to be executed upon achievement of enabling transmission operating conditions, said control system comprising :

an operator actuated gear selector valve (160) having a selector switch (154) movable to at least three positions to preselect a desire engaged auxiliary transmission section gear, said selector valve connected to a source of pressurized fluid (supply), a first selectively pressurized and exhaust fluid pipeline (2), a second selectively pressurized and exhaust fluid pipeline (3) and an exhaust (Exh) pipeline, in said first position (Low) of said selector switch said selector valve establishing communication between said source and a second pressure line port (184), said actuator fluid pipeline (2) and exhausting said second selectively pressurized and exhaust fluid pipeline (3), in said second position (Int) of said selector switch said selector valve exhausting both of said first and second selectively pressurized and exhaust pipelines and blocking said source, and in said third position (High) of said selector switch said selector valve connecting said second selectively pressurized and exhaust pipelines to said source of pressurized fluid and exhausting said first selectively pressurized and exhaust pipeline;

An actuator valve assembly (152) remote from said gear selector valve and having a supply port (182) in constant fluid communication with said source of pressurized fluid, a first pressure line port (186) and a second pressure line port (184), said actuator valve assembly including piston means (144, 150) having a first position for engagement of a first selected gear, a second position for engagement of a second selected gear and a third position for engagement of a third selected gear, said piston means assuming said first position upon pressurization of said

first pressure line port and exhaust of said second pressure line ports and said piston assuming said second position upon exhaust of both said first and second pressure line ports and said piston means assuming said third position thereof upon pressurization of said second pressure line port and exhaust of said first pressure line port;

wherein said first selectively pressurized and exhaust pipeline connecting said selector valve directly to said first pressure line port and said second selectively pressurized and exhaust pipeline connecting said selector valve directly to said second pressure line port.



(Compl. specn. 22 pages)

Drgs. 4 sheets)

Cl. : 40-G

170778

Int. Cl. : C10G 32/00, H05B 3/60.

## PYROLYSIS HEATER FOR THE PYROLYSIS OF HYDROCARBON.

Applicants : LUMMUS CREST INC., 1515 BROAD STREET, BLOOMFIELD, NEW JERSEY, U.S.A.

Inventors : (1) JORGE MOISES FERNANDEZBAUJIN.  
 (2) JOHN VINCENT ALBANO.  
 (3) CHARLES SUMNER.  
 (4) ANDREI RHOE.  
 (5) KANDASAMY MEENAKSHI SUNDARAM.

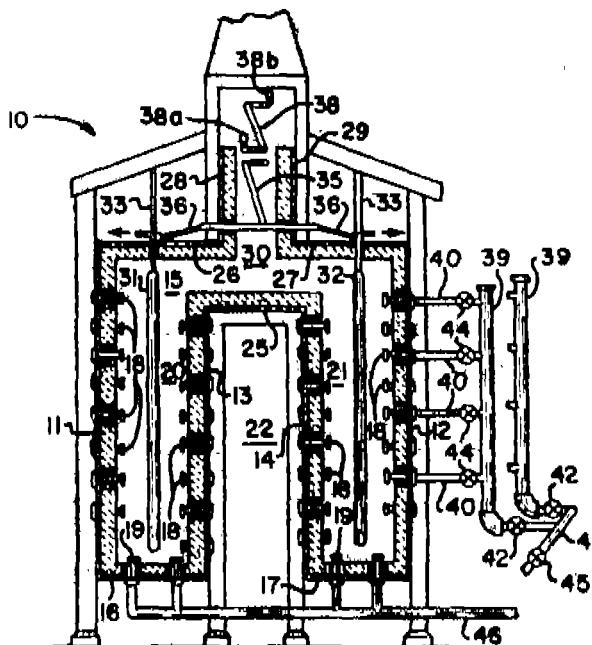
Application No. 694/Cal/1988 filed on 19th August, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

## 7 Claims

A pyrolysis heater for the pyrolysis of hydrocarbons comprising :

- (a) a radiant heating chamber;
- (b) at least one tubular processing coil including a first half and a second half for processing fluid in said heating chamber; and
- (c) a plurality of radiant burners for heating the at least one tubular processing coil; characterised in that said at least one tubular processing coil having extended heating surface within at least a portion of the first half thereof only for increasing the adsorption of radiant heat.



(Compl. specn. 16 pages)

Drgs. 3 sheets.)

Cl. 25-B, 85-J.

170779

Int. Cl. C 21 B 7/06.

## A PROCESS FOR THE MANUFACTURE OF COKE BRIQUETTES CONTAINING ILMENITE FOR USE IN BLAST FURNACES.

Applicants : DROLIA FUELS PVT. LTD., 26, BUR-TOLLA STREET, CALCUTTA-700 007, WEST BENGAL.

Inventors : (1) AWADH KUMAR DROLIA  
 (2) DR. S. DHARANI PALAN.

Application No. 837/Cal/1988 filed on 11th October, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A process for manufacturing coke briquettes containing  $TiO_2$  for use in blast furnaces comprising adding a binder such as herein described to :

- (i) coke breeze of size below 25 mm, preferably below 3 mm.
- (ii) ilmenite sand being a source of  $TiO_2$  with or without.
- (iii) carbonaceous materials like charcoal and/or lignite fines such as herein described, said binder and ilmenite sand being in the range of 7 to 10% and at least 20% respectively by weight of the mixture of said coke breeze, ilmenite sand and binder.

maintaining said binder contained mixture in a molten state by indirect steam heating to a temperature of at least 60°C.

subjecting the mixture with binder to intimate mixing at a higher temperature by direct steam heating to a temperature of about 80°C to 90°C.

cooling down said mixture to a temperature of about 50°C forming the mixture into briquettes of desired shape and size.

subjecting the briquettes thus formed to natural curing followed by oxidative thermal curing preferably in the temperature range of 300° to 400°C when the briquettes undergo polycondensation reaction to form hard briquettes of desired strength.

(Compl. specn. 19 pages

Drgs. 1 sheet)

Cl. : 34-C

170780

Int. : Cl. D 01F 6/00.

#### AN IMPROVED PROCESS FOR PREPARING HEAVY DENIER THERMOPLASTIC MONOFILAMENT.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U.S.A.

Inventors : (1) ROBERT KEITH ANDERSON.  
(2) MICHAEL HERBERT MAINZ  
(3) ROBERT LEE RACKLEY.

Application No. 838/Cal/1988 filed on 11th October, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

An improved process for preparing heavy denier thermoplastic monofilament comprising the steps of spinning, quenching and drawing a heavy denier thermoplastic monofilament in at least two draw stages to a total draw ratio of at least 5.OX, liquid quenching the monofilament, advancing the quenched monofilament in at least one draw stage, where in it is orientation-stretched at a ratio of at least 3.OX and then advancing the monofilament through a zone heated with a radiant heater at a temperature of 600–1300°C and drawing the monofilament wherein the monofilament is orientation stretched at a ratio of at least 1.3X the improvement comprising :

drying the monofilament surface after quenching the monofilament and heating the quenched, surface dried monofilament by flame before the last at least 1.3X increment of draw ratio, said heating being effected by passing the quenched mono-filament through the flame at a monofilament surface temperature of from 20°C below the monofilament melting point to 40°C above the monofilament melting point.

(Compl. specn. 24 pages

Drgs. 1 sheet)

PATENT SEALED ON 16th April 1992

168057 168701 168708 168712 168763 168764 168766  
168781 168837 169049.

Cal-5; Dcl-3; Mas-1; Bom-1.

#### AMENDMENT PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that DOW CORNING CORPORATION, of 3901 S Saginaw Road, Midland, Michigan-48640-994, a U.S. Company have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 54/MAS/88 for A HIGH PERFORMANCE, HIGH VOLTAGE ELECTRICAL INSULATOR.

The amendments are by way of correction. The application for amendments and the proposed amendments can

be inspected free of charge at the Patent Office Branch, 6, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

Notice is hereby given that TAKEDA CHEMICAL INDUSTRIES LTD., a Japanese Corporation, of 3-6 Doshimachi 2-Chome, Chuo-ku, Osaka, Japan have made an application under section 57 of the Patents Act, 1970 for amendment of application and specification of their application for Patent No. 769/MAS/89 for a Process for preparing Tetrahydropyrimidine compounds and Salts thereof.

The amendment are by way of correction. The application for amendments and the proceed amendments can be inspected free of charge at the Patent Office Branch, 6, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

Notice is hereby given that Lucky Biotech Corporation, a Corporation organised and existing under the laws of the State of California U.S.A. of 4560 Horton Street, Emery Ville, California 44608, United States of America have made an application under Section 57 of the Patents Act 1970 for amendment of specification of their Patent No. 168525 for "Process for producing novel Proteinaceous Sweetenc's".

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a Notice of Opposition on the prescribed Form-30 within 3 months from the date of this Notification at the Paent Office, Calcutta. If he Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

#### RENEWAL FEES PAID

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160246 160306 160307 160319 160411 160418 160496 160626  
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162977 163300 163401 163769 164027 164028 164054 164138  
164284 164322 164391 164400 164406 164407 164493 164502  
164711 164746 164999 165003 165103 165104 165223 165227  
165541 165662 165668 166064 166195 166611 166642 166705  
166820 166867 166946 166947 166987 167051 167095 167149  
167182 167183 167184 167187 1667193 167195 167242 167334  
167400 167434 167458 167547 167592 167603 167606 167636  
167640 167713 167793 167802 167806 167873 167877 167887  
167949 168012 168096 168122 168523

## CESSATION OF PATENTS

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 156718 156719 156720 156721 156724 156725 156730 156731  
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 156746 156749 156753 156754 156757 156758 156759 156760  
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 156802 156804 156808 165605 165970 166271

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry :

Class 1. No. 163868. Khaitan (India) Ltd., Indian Company of 46C, J. L. Nehru Road, Calcutta-700071, W.B., India. "Canopy for electric ceiling fan". November 27, 1991.

Class 1. No. 164134. Automatic Instruments Pvt. Ltd., C-3/2, Mayapuri Industrial Area, Phase-II, New Delhi-110064, India. "Thermostat". March 2, 1992.

Class 3. No. 163628. Plastimats India, 8/78-B, Anand Parbat Industrial Area, New Delhi-110005, India, Indian Partnership Firm. "Torch Light". October 1, 1991.

Class 3. No. 163739. Sivananda Electronics of Deepak Mahal, Lam Road, Devlali-422401, Maharashtra, India, Indian Partnership Firm. "Metal Detector" November 4, 1991.

Class 3. No. 163761. Sayed Mohammed Mira Sahib Jafarulla, Indian trading as Rafee Seat Covers of 182 L High Road, Central Buildings, Opp: Central Theatre, Tirunelveli Junction-627001, T.N., India. "Box". November 7, 1991.

Class 3. No. 163872. Khaitan (India) Ltd., Indian Company of 46C, J. L. Nehru Road, Calcutta-700071, W.B., India. "Canopy for electric ceiling fan". November 27, 1991.

Class 3. Nos. 163873 to 163875 & 163877. Hindustan Lever Ltd., 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India. "Bottle". Priority date May 31, 1991 (UK).

Class 3. Nos. 163881 & 163882. Hindustan Lever Limited, 165/166, Backbay Reclamation, Hindustan Lever House, Bombay-400020, Maharashtra, India. "Container with cap" Priority date June 3, 1991 (UK).

Class 3. No. 164002. International Business Machines Corp., of Armonk, New York-10504, U.S.A. "Portable hand held terminal". January 14, 1992.

Class 3. No. 164003. Bhagyanagar Fibre Glass Pvt. Ltd. of B-171, Sainikpuri, Secunderabad-500594 A.P., India. "Cooking L.P. Gas Cylinder Stand". January 14, 1992.

Class 3. No. 164017. A. B. M. Hi-Tech. Products, Indian Partnership Concern of 3, Maydu Plot, Rajkot-360004, Gujarat, India. "Lighter". January 17, 1992.

Class 3. No. 164066. Sterling Laboratories Pvt. Ltd. of A-55, D.D.A. Office Complex, Mahatma Gandhi Road, Defence Colony, New Delhi-110024, India. "Bottle". February 7, 1992.

Class 12. No. 163910. Samrat Food Products, 32, Industrial Area, Ulhasnagar-421004, Maharashtra, India, Indian Partnership Firm. "Biscuit". December 12, 1991.

R. A. ACHARYA

Controller General of Patents,  
Designs and Trade Marks.

प्रबंधक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मूल्यित  
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1992

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